AMENDMENTS TO THE SPECIFICATION

Page 4

Please replace paragraph [0006], with the following new paragraph [0006]:

[0006] One aspect of the present invention relates to a siloxane-based resin that is prepared by hydrolyzing and condensing a silane-based monomer having a radial structure of Formula 1 and at least one monomer selected from the group consisting of the compounds of Formulas 2 to 4, in organic solvent in the presence of an acid or alkaline catalyst and water:

Formula 1

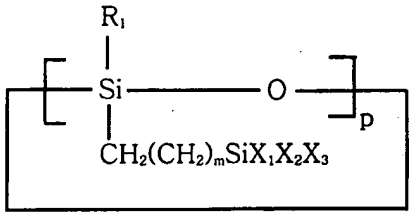
$Si[(CH_2)_kSiY_1Y_2Y_3]_4$

wherein,

k is an integer of 1-10; and

Y_1, Y_2 and Y_3 are independently a C_1-C_3 alkyl group, a C_1-C_{10} alkoxy group, or a halogen atom, provided that at least one of them is hydrolysable,

Formula 2



wherein,

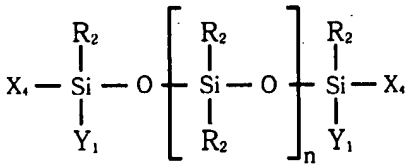
R_1 is a C_1-C_3 alkyl group, or a C_6-C_{15} aryl group;

X_1, X_2 and X_3 are independently a hydrogen atom, a C_1-C_3 alkyl group, a C_1-C_{10} alkoxy group, or a halogen atom, provided that at least one of them is hydrolyzable;

m is an integer of 0-10; and

p is an integer of 3-8,

Formula 3



wherein,

R_2 is a C_1-C_3 alkyl group, or a C_6-C_{15} aryl group;

X_4 is a hydrogen atom, or a C_1-C_{10} alkoxy group;

Y_1 is a hydrogen atom, a C_1-C_3 alkyl group or a C_1-C_{10} alkoxy group; and

n is an integer of 0-10, and

Formula 4

~~$R_3Si(X_5X_6X_7)_3$~~ $\underline{R_3SiX_5X_6X_7}$

wherein,

R_3 is a C_1-C_3 alkyl group, or a C_6-C_{15} aryl group;

X_5, X_6 and X_7 are independently a hydrogen atom, a C_1-C_3 alkyl group, a C_1-C_{10} alkoxy group, or a halogen atom, provided that at least one of them is hydrolyzable.

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Please replace paragraph [0012], with the following new paragraph [0012]:

[0012] According to the present invention, the combined use of a porogen with the inventive siloxane-based resin may further lower the dielectric constant of the final insulating film down to 2.50 or less. The present invention is represented by:

Formula 1

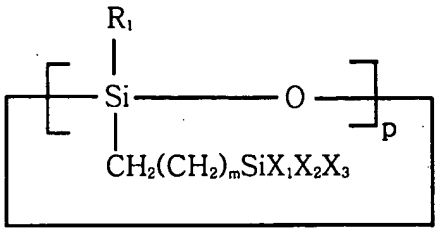
$Si[(CH_2)_kSiY_1Y_2Y_3]_4$

wherein,

k is an integer of 1-10; and

Y_1, Y_2 and Y_3 are independently a C_1-C_3 alkyl group, a C_1-C_{10} alkoxy group, or a halogen atom, provided that at least one of them is hydrolyzable.

Formula 2



wherein,

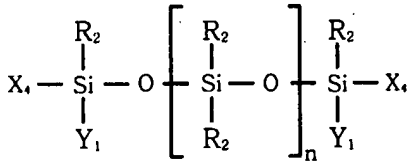
R_1 is a C_1-C_3 alkyl group, or a C_6-C_{15} aryl group;

X_1, X_2 and X_3 are independently a hydrogen atom, a C_1-C_3 alkyl group, a C_1-C_{10} alkoxy group, or a halogen atom, provided that at least one of them is hydrolyzable;

m is an integer of 0-10; and

p is an integer of 3-8.

Formula 3



wherein,

R_2 is a C_1-C_3 alkyl group, or a C_6-C_{15} aryl group;

X_4 is a hydrogen atom, or a C_1-C_{10} alkoxy group;

Y_1 is a hydrogen atom, a C_1-C_3 alkyl group or a C_1-C_{10} alkoxy group; and

n is an integer of 0-10, and

Formula 4

~~$R_3Si(X_5X_6X_7)_3$~~ $\underline{R_3SiX_5X_6X_7}$

wherein,

R_3 is a C_1-C_3 alkyl group, or a C_6-C_{15} aryl group;

X_5, X_6 and X_7 are independently a hydrogen atom, a C_1-C_3 alkyl group, a C_1-C_{10} alkoxy group, or a halogen atom, provided that at least one of them is hydrolyzable.